

HERA MISSION STATUS

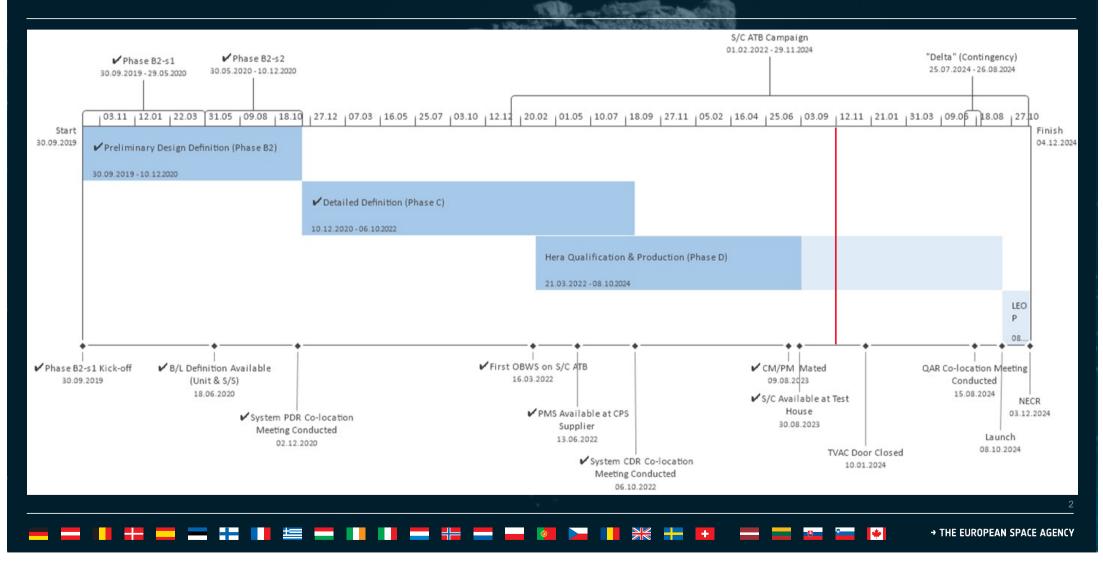
SMPAG October 2023

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Integrated master schedule





Hera transport to ESTEC





Hera mechanical integration completed





Environmental test campaign



- Until 26 SEP: SAW cold deployment, thermistors and heaters crimping, LGA, HGA integration, MLI
- ✓ 28 SEP 3 OCT: physical properties measurements
- 9 23 OCT: vibration tests
- 25 OCT 2 NOV: acoustic test
- 3 NOV 18 DEC: functional tests (ISSTs for TCS, COM, DHS, FDIR, GNC, EPS, payload)
- 19 21 DEC: TVAC reheasal
- 2 JAN 22 Jan: TVAC



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Successful SAW deployment test

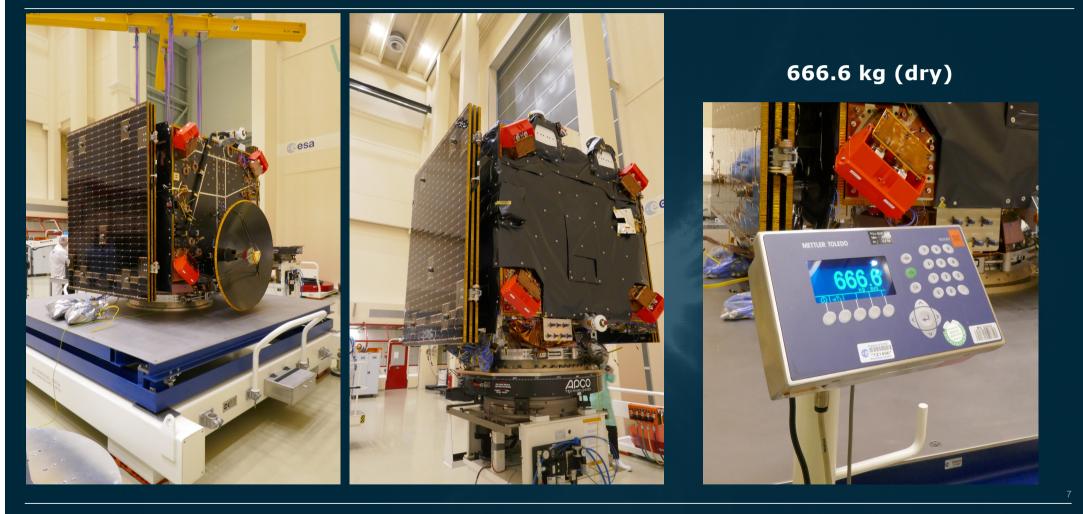




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Physical properties measurements





Satellite integration activities: payloads



AFC

Flight units integrated

PALT

- eBox successfully qualified and delivered
- PALTO integration ongoing
 Late delivery foreseen Dec 2023 / Jan 2024
- "PALTernative" will be integrated for mechanical tests

TIRI

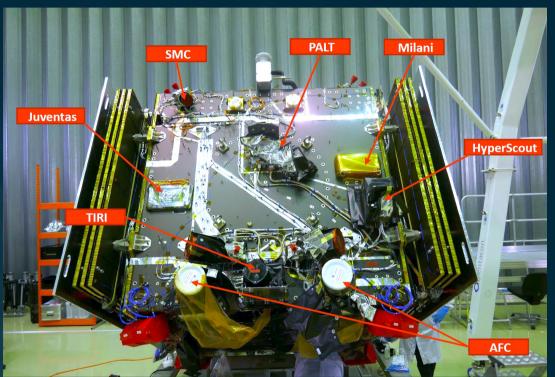
- EQM integrated
- PFM in repair, delivery to ESTEC planned by Dec 2023

Hyperscout-H

• PFM **integrated**, software update ongoing.

SMC

• FM integrated.



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CubeSats status



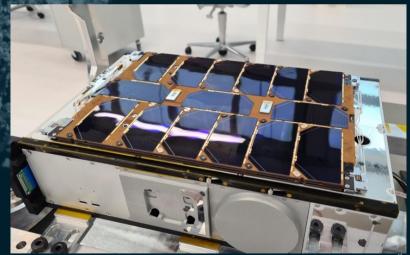
MILANI

- STIM integrated in the Hera spacecraft
- rEM completed and delivered to OHB
- All FM HW available, integration of the flight model ongoing
- VISTA FM delivered, ASPECT FM delayed end Octob

JUVENTAS

- JuRa PFM delivered
- GRASS delivered
- STIM integrated in the Hera spacecraft
- All FM hardware available, integration ongoing





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Launcher procurement status

- Launch service with SpaceX signed
- Site survey planned 12-14 December at NASA KSC
- Discussions ongoing regarding:
 - Air transport to NASA KSC (C-17 or A400M)
 - Payload processing facility (SpaceX vs Astrotech)



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Conclusions



- Hera is on track for launch in October 2024: T 360 days!
- Environmental and functional testing to be completed
- CubeSats on track for successful delivery
- Very dense test plan for ground operations
- Software development/debugging will remain critical until launch
- Strong commitment by ESA and industry teams remains key to success
- Funding for European science teams remains critical